

Sub C2
What is claimed is:

1. A tie down system for use with a vehicle, said tie down system comprising:
at least one mounting track associated with at least one side of a cargo carrying area;
at least one tie down member having one end fixed in a position on an opposing side of said at
least one side, said tie down member having a terminal end with a coupling device thereon;
5 at least one tie down anchor assembly, said at least one anchor assembly adjustably positioned in
association with the mounting track at a location to allow the coupling device to be positively
retained in association with the anchor assembly over said cargo carrying area.

2. The tie down system of claim 1, wherein mounting tracks are provided on both sides of
the cargo carrying area.

10 3. The tie down system of claim 1, wherein said at least one mounting track is selected from
the group consisting of double-L mounting tracks, C-channel mounting tracks, and integral
mounting tracks formed in association with said vehicle.

4. The tie down system of claim 1, wherein said coupling device is a hook member and said
at least one tie down anchor assembly comprises a hook hanger comprising:
15 a mounting bracket having a profile conforming to said at least one mounting track; and
a hook anchor associated with said mounting bracket, said hook anchor capable of
positively engaging said hook member when said bracket is mounted on said at least one
mounting track.

1502-7
20 5. The tie down system of claim 1, wherein said at least one tie-down member is selected
from the group consisting of straps, ropes, chains, cables, and wires.

Sub C2
6. A tie down coupling system for a cargo control system, comprising:
a body member secured in a desired position relative to at least one tie down member of a
cargo control system, the tie down member having a coupling device associated therewith; and
a coupling anchor associated with said body member to receive said coupling device and
25 positively retain said coupling device with said body member regardless of the tension applied to
said tie down member.

7. The tie down coupling system of claim 6, wherein said coupling device is a hook member
and said body member comprises a hook hanger comprising:

a hook anchor capable of positively engaging said hook member to restrain vertical and horizontal movement of said hook member.

8. The tie down coupling system of claim 6, wherein said body member has a mounting structure for selective mounting relative to said cargo control system.

9. The tie down coupling system of claim 8, wherein said mounting structure is a bracket having a profile conforming to a mounting track associated with a vehicle.

10. The tie down system of claim 9, wherein said bracket profile is configured to conform to a mounting track selected from the group consisting of double-L mounting tracks, C-channel mounting tracks, and integral mounting tracks formed in association with said vehicle.

11. The tie down coupling system of claim 7, further comprising a hook retainer which substantially maintains the position of said hook relative to said hook anchor.

12. The tie down coupling system of claim 11, wherein said hook retainer comprises: a vertical-movement retainer capable of preventing substantial vertical movement of said hook.

13. The tie down coupling system of claim 11, wherein said hook retainer comprises: a horizontal-movement retainer capable of preventing substantial horizontal movement of said hook relative to said body member.

14. The tie down coupling system of claim 13, wherein said horizontal-movement retainer comprises a retaining bar which is selectively positionable to prevent movement of said hook out of engagement with said hook anchor.

15. The tie down coupling system of claim 13 wherein said horizontal-movement retainer is rotatable between a hook mounting position and a hook retaining position.

16. The hook hanger of claim 13, wherein said horizontal-movement retainer comprises first and second retainer leg members, said first retainer leg member effectively restricting substantial horizontal movement of said hook in one horizontal direction, and said second retainer leg member effectively restricting substantial horizontal movement of said hook in the opposite horizontal direction.

17. The hook hanger of claim 13, wherein said horizontal-movement retainer is lockable in a hook retaining position.

18. The hook hanger of claim 12, wherein said vertical-movement retainer comprises a hook retainer assembly comprising a first wall positioned in spaced apart relationship to said hook

anchor to form an space adjacent said hook anchor in which a portion of said hook is received and a second wall extending toward said hook anchor to form an opening, wherein said second wall is positioned to contact the hook prior to release from the hook anchor to maintain engagement of the hook with the body member.

5

add
AP

add
C2

11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100